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Market_Desc: · Mathematicians
Special Features: · The book

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present results that are general enough to cover cases that actually arise, but do not strive for maximum generality. It also present proofs that can readily be adapted to a more general situation. It contains a rather

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extensive lists of exercises, some difficult for the more challenged. Moderately difficult exercises are broken down into a sequence of steps About The Book: In recent years, mathematics has become

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valuable in many areas, including economics and management science as well as the physical sciences, engineering and computer science. Therefore, this text provides the fundamental

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concepts and techniques of real analysis for readers in all of these areas. It helps one develop the ability to think deductively, analyze mathematical situations and extend ideas to a new context. Like the first two

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editions, this edition maintains the same spirit and user-friendly approach with some streamlined arguments, a few new examples, rearranged topics, and a new chapter on the Generalized Riemann Integral.

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This open access textbook welcomes students into the fundamental theory of measure, integration, and real analysis. Focusing on an accessible approach, Axler lays the foundations for further study by

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promoting a deep understanding of key results. Content is carefully curated to suit a single course, or two-semester sequence of courses, creating a versatile entry point for graduate studies in all areas of pure and

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applied mathematics. Motivated by a brief review of Riemann integration and its deficiencies, the text begins by immersing students in the concepts of measure and integration. Lebesgue measure and abstract

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measures are developed together, with each providing key insight into the main ideas of the other approach. Lebesgue integration links into results such as the Lebesgue Differentiation Theorem. The

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development of products of abstract measures leads to Lebesgue measure on \mathbb{R}^n . Chapters on Banach spaces, L_p spaces, and Hilbert spaces showcase major results such as the Hahn–Banach Theorem,

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Hölder's Inequality, and the Riesz Representation Theorem. An in-depth study of linear maps on Hilbert spaces culminates in the Spectral Theorem and Singular Value Decomposition for compact operators, with an

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optional interlude in real and complex measures. Building on the Hilbert space material, a chapter on Fourier analysis provides an invaluable introduction to Fourier series and the Fourier transform. The

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final chapter offers a taste of probability. Extensively class tested at multiple universities and written by an award-winning mathematical expositor, Measure, Integration & Real Analysis is an ideal resource for

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students at the start of their journey into graduate mathematics. A prerequisite of elementary undergraduate real analysis is assumed; students and instructors looking to reinforce these ideas will

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appreciate the electronic Supplement for Measure, Integration & Real Analysis that is freely available online.

Originally published in 2010, reissued as part of Pearson's modern classic series.

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This textbook is an introduction to functional analysis suited to final year undergraduates or beginning graduates. Its various applications of Hilbert spaces, including least squares approximation, inverse

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problems, and Tikhonov regularization, should appeal not only to mathematicians interested in applications, but also to researchers in related fields. Functional Analysis adopts a self-contained

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approach to Banach spaces and operator theory that covers the main topics, based upon the classical sequence and function spaces and their operators. It assumes only a minimum of knowledge in elementary linear

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algebra and real analysis; the latter is redone in the light of metric spaces. It contains more than a thousand worked examples and exercises, which make up the main body of the book.

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Elementary Analysis

Introduction to Real Analysis,
Fourth Edition

An Introduction to Measure
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An Introduction to Classical Real Analysis

This is the first text in a generation to re-examine the purpose of the mathematical statistics course. The book's approach interweaves traditional topics with data analysis

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and reflects the use of the computer with close ties to the practice of statistics. The author stresses analysis of data, examines real problems with real data, and motivates the theory. The book's descriptive statistics, graphical

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displays, and realistic applications stand in strong contrast to traditional texts that are set in abstract settings. Important Notice: Media content referenced within the product description or the product text may not be available in the

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ebook version.

A text for a first graduate course in real analysis for students in pure and applied mathematics, statistics, education, engineering, and economics.

Foundations of Analysis is an

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excellent new text for undergraduate students in real analysis. More than other texts in the subject, it is clear, concise and to the point, without extra bells and whistles. It also has many good exercises that help illustrate the material. My students

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were very satisfied with it. --Nat Smale, University of Utah I have taught our Foundations of Analysis course (based on Joe Taylor.s book) several times recently, and have enjoyed doing so. The book is well-written, clear, and concise, and

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supplies the students with very good introductory discussions of the various topics, correct and well-thought-out proofs, and appropriate, helpful examples. The end-of-chapter problems supplement the body of the text very well (and range

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nicely from simple exercises to really challenging problems).

--Robert Brooks, University of Utah

An excellent text for students whose future will include contact with mathematical analysis, whatever their discipline might be. It is

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content-comprehensive and pedagogically sound. There are exercises adequate to guarantee thorough grounding in the basic facts, and problems to initiate thought and gain experience in proofs and counterexamples.

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Moreover, the text takes the reader near enough to the frontier of analysis at the calculus level that the teacher can challenge the students with questions that are at the ragged edge of research for undergraduate students. I like it a lot. --Don

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Tucker, University of Utah My students appreciate the concise style of the book and the many helpful examples. --W.M. McGovern, University of Washington Analysis plays a crucial role in the undergraduate curriculum. Building

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upon the familiar notions of calculus, analysis introduces the depth and rigor characteristic of higher mathematics courses.

Foundations of Analysis has two main goals. The first is to develop in students the mathematical maturity

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and sophistication they will need as they move through the upper division curriculum. The second is to present a rigorous development of both single and several variable calculus, beginning with a study of the properties of the real number

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system. The presentation is both thorough and concise, with simple, straightforward explanations. The exercises differ widely in level of abstraction and level of difficulty. They vary from the simple to the quite difficult and from the

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computational to the theoretical. Each section contains a number of examples designed to illustrate the material in the section and to teach students how to approach the exercises for that section. The list of topics covered is rather standard,

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although the treatment of some of them is not. The several variable material makes full use of the power of linear algebra, particularly in the treatment of the differential of a function as the best affine approximation to the function at a

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given point. The text includes a review of several linear algebra topics in preparation for this material. In the final chapter, vector calculus is presented from a modern point of view, using differential forms to give a unified treatment of

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the major theorems relating derivatives and integrals: Green's, Gauss's, and Stokes's Theorems. At appropriate points, abstract metric spaces, topological spaces, inner product spaces, and normed linear spaces are introduced, but only as

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asides. That is, the course is grounded in the concrete world of Euclidean space, but the students are made aware that there are more exotic worlds in which the concepts they are learning may be studied. Real analysis is difficult. For most

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students, in addition to learning new material about real numbers, topology, and sequences, they are also learning to read and write rigorous proofs for the first time. The Real Analysis Lifesaver is an innovative guide that helps students

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through their first real analysis course while giving them the solid foundation they need for further study in proof-based math. Rather than presenting polished proofs with no explanation of how they were devised, The Real Analysis Lifesaver

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takes a two-step approach, first showing students how to work backwards to solve the crux of the problem, then showing them how to write it up formally. It takes the time to provide plenty of examples as well as guided "fill in the blanks"

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exercises to solidify understanding. Newcomers to real analysis can feel like they are drowning in new symbols, concepts, and an entirely new way of thinking about math. Inspired by the popular Calculus Lifesaver, this book is refreshingly

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straightforward and full of clear explanations, pictures, and humor. It is the lifesaver that every drowning student needs. The essential “lifesaver” companion for any course in real analysis Clear, humorous, and easy-to-read style

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Teaches students not just what the proofs are, but how to do them—in more than 40 worked-out examples
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internalize proof techniques Tried and tested in the classroom

Real Analysis (Classic Version)

Measure, Integration & Real Analysis

Third Edition

Basic Analysis I

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Functional Analysis

The third edition of this well known text continues to provide a solid foundation in mathematical analysis for undergraduate and first-year graduate

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students. The text begins with a discussion of the real number system as a complete ordered field. (Dedekind's construction is now treated in an appendix to Chapter I.)

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The topological background needed for the development of convergence, continuity, differentiation and integration is provided in Chapter 2. There is a new

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section on the gamma function, and many new and interesting exercises are included. This text is part of the Walter Rudin Student Series in Advanced Mathematics.

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Education is an admirable thing, but it is well to remember from time to time that nothing worth knowing can be taught. Oscar Wilde, "The Critic as Artist," 1890. Analysis is

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a profound subject; it is neither easy to understand nor summarize. However, Real Analysis can be discovered by solving problems. This book aims to give independent

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students the opportunity to discover Real Analysis by themselves through problem solving. The depth and complexity of the theory of Analysis can be appreciated by taking a glimpse at its

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developmental history. Although Analysis was conceived in the 17th century during the Scientific Revolution, it has taken nearly two hundred years to establish

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its theoretical basis. Kepler, Galileo, Descartes, Fermat, Newton and Leibniz were among those who contributed to its genesis. Deep conceptual changes in

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Analysis were brought about in the 19th century by Cauchy and Weierstrass. Furthermore, modern concepts such as open and closed sets were introduced in the 1900s.

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Today nearly every undergraduate mathematics program requires at least one semester of Real Analysis. Often, students consider this course to be the most challenging or

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even intimidating of all their mathematics major requirements. The primary goal of this book is to alleviate those concerns by systematically solving the problems related to

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the core concepts of most analysis courses. In doing so, we hope that learning analysis becomes less taxing and thereby more satisfying.

This text for a second

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course in linear algebra, aimed at math majors and graduates, adopts a novel approach by banishing determinants to the end of the book and focusing on understanding the

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structure of linear operators on vector spaces. The author has taken unusual care to motivate concepts and to simplify proofs. For example, the book presents

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- without having defined determinants - a clean proof that every linear operator on a finite-dimensional complex vector space has an eigenvalue. The book starts by

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discussing vector spaces, linear independence, span, basics, and dimension.

Students are introduced to inner-product spaces in the first half of the book and shortly thereafter to

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the finite-dimensional spectral theorem. A variety of interesting exercises in each chapter helps students understand and manipulate the objects of linear algebra. This

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second edition features new chapters on diagonal matrices, on linear functionals and adjoints, and on the spectral theorem; some sections, such as those on self-

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adjoint and normal operators, have been entirely rewritten; and hundreds of minor improvements have been made throughout the text. The new, Third Edition of

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this successful text covers the basic theory of integration in a clear, well-organized manner. The authors present an imaginative and highly practical synthesis of the

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"Daniell method" and the measure theoretic approach. It is the ideal text for undergraduate and first-year graduate courses in real analysis. This edition offers a new

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chapter on Hilbert Spaces and integrates over 150 new exercises. New and varied examples are included for each chapter. Students will be challenged by the more

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than 600 exercises. Topics are treated rigorously, illustrated by examples, and offer a clear connection between real and functional analysis. This text can be used in

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combination with the authors' Problems in Real Analysis, 2nd Edition, also published by Academic Press, which offers complete solutions to all exercises in the

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Principles text. Key

Features: * Gives a unique presentation of integration theory * Over 150 new exercises integrated throughout the text * Presents a new

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chapter on Hilbert Spaces
* Provides a rigorous introduction to measure theory * Illustrated with new and varied examples in each chapter * Introduces topological ideas in a

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friendly manner * Offers a clear connection between real analysis and functional analysis * Includes brief biographies of mathematicians "All in all, this is a beautiful

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selection and a masterfully balanced presentation of the fundamentals of contemporary measure and integration theory which can be grasped easily by

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the student." --J. Lorenz
in Zentralblatt für
Mathematik "...a clear and
precise treatment of the
subject. There are many
exercises of varying
degrees of difficulty. I

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highly recommend this book for classroom use."

--CASPAR GOFFMAN,

Department of Mathematics,

Purdue University

Analysis I

The Real Analysis

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Lifesaver

Introduction to Analysis

A Problem Book in Real

Analysis

Introduction to Real

Analysis

An Introduction to Analysis, Second

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Edition provides a mathematically rigorous introduction to analysis of real-valued functions of one variable. The text is written to ease the transition from primarily computational to primarily theoretical mathematics. Numerous

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examples and exercises help students to understand mathematical proofs in an abstract setting, as well as to be able to formulate and write them. The material is as clear and intuitive as possible while still maintaining mathematical integrity.

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The author presents abstract mathematics in a way that makes the subject both understandable and exciting to students.

Mathematics is the music of science, and real analysis is the Bach of mathematics. There are many other

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foolish things I could say about the subject of this book, but the foregoing will give the reader an idea of where my heart lies. The present book was written to support a first course in real analysis, normally taken after a year of

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elementary calculus. Real analysis is, roughly speaking, the modern setting for Calculus, "real" alluding to the field of real numbers that underlies it all. At center stage are functions, defined and taking values in sets of real numbers or in sets (the

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plane, 3-space, etc.) readily derived from the real numbers; a first course in real analysis traditionally places the emphasis on real-valued functions defined on sets of real numbers. The agenda for the course: (1) start with the axioms for the field

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of real numbers, (2) build, in one semester and with appropriate rigor, the foundations of calculus (including the "Fundamental Theorem"), and, along the way, (3) develop those skills and attitudes that enable us to continue learning

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mathematics on our own. Three decades of experience with the exercise have not diminished my astonishment that it can be done. Version 5.0. A first course in rigorous mathematical analysis. Covers the real number system,

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sequences and series, continuous functions, the derivative, the Riemann integral, sequences of functions, and metric spaces.

Originally developed to teach Math 444 at University of Illinois at Urbana-Champaign and later

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enhanced for Math 521 at University of Wisconsin-Madison and Math 4143 at Oklahoma State University. The first volume is either a stand-alone one-semester course or the first semester of a year-long course together with the second volume. It

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can be used anywhere from a semester early introduction to analysis for undergraduates (especially chapters 1-5) to a year-long course for advanced undergraduates and masters-level students. See

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<http://www.jirka.org/ra/> Table of Contents (of this volume I):

Introduction 1. Real Numbers 2. Sequences and Series 3. Continuous Functions 4. The Derivative 5. The Riemann Integral 6. Sequences of Functions 7. Metric Spaces This first

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volume contains what used to be the entire book "Basic Analysis" before edition 5, that is chapters 1-7.

Second volume contains chapters on multidimensional differential and integral calculus and further topics on approximation of functions.

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With this second volume, we enter the intriguing world of complex analysis. From the first theorems on, the elegance and sweep of the results is evident. The starting point is the simple idea of extending a function initially given for real

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values of the argument to one that is defined when the argument is complex. From there, one proceeds to the main properties of holomorphic functions, whose proofs are generally short and quite illuminating: the Cauchy theorems,

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residues, analytic continuation, the argument principle. With this background, the reader is ready to learn a wealth of additional material connecting the subject with other areas of mathematics: the Fourier transform treated by contour

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integration, the zeta function and the prime number theorem, and an introduction to elliptic functions culminating in their application to combinatorics and number theory. Thoroughly developing a subject with many ramifications, while

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striking a careful balance between conceptual insights and the technical underpinnings of rigorous analysis, Complex Analysis will be welcomed by students of mathematics, physics, engineering and other sciences. The Princeton Lectures in Analysis

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represents a sustained effort to introduce the core areas of mathematical analysis while also illustrating the organic unity between them. Numerous examples and applications throughout its four planned volumes, of which Complex

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Analysis is the second, highlight the far-reaching consequences of certain ideas in analysis to other fields of mathematics and a variety of sciences. Stein and Shakarchi move from an introduction addressing Fourier series and integrals to in-

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depth considerations of complex analysis; measure and integration theory, and Hilbert spaces; and, finally, further topics such as functional analysis, distributions and elements of probability theory.

The Far Right Today
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Introduction to Analysis, An,
Foundations of Analysis

An Introduction to Metric Spaces,
Hilbert Spaces, and Banach
Algebras

This book presents a unified treatise

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of the theory of measure and integration. In the setting of a general measure space, every concept is defined precisely and every theorem is presented with a clear and complete proof with all the relevant details. Counter-examples are provided to show that certain

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conditions in the hypothesis of a theorem cannot be simply dropped. The dependence of a theorem on earlier theorems is explicitly indicated in the proof, not only to facilitate reading but also to delineate the structure of the theory. The precision and clarity of

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presentation make the book an ideal textbook for a graduate course in real analysis while the wealth of topics treated also make the book a valuable reference work for mathematicians.

Based on the authors' combined 35 years of experience in teaching, A

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Basic Course in Real Analysis introduces students to the aspects of real analysis in a friendly way. The authors offer insights into the way a typical mathematician works observing patterns, conducting experiments by means of looking at or creating examples, trying to

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understand the underlying principles, and coming up with guesses or conjectures and then proving them rigorously based on his or her explorations. With more than 100 pictures, the book creates interest in real analysis by encouraging students to think

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geometrically. Each difficult proof is prefaced by a strategy and explanation of how the strategy is translated into rigorous and precise proofs. The authors then explain the mystery and role of inequalities in analysis to train students to arrive at estimates that will be useful for

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proofs. They highlight the role of the least upper bound property of real numbers, which underlies all crucial results in real analysis. In addition, the book demonstrates analysis as a qualitative as well as quantitative study of functions, exposing students to arguments that fall under hard

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analysis. Although there are many books available on this subject, students often find it difficult to learn the essence of analysis on their own or after going through a course on real analysis. Written in a conversational tone, this book explains the hows and whys of real

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analysis and provides guidance that makes readers think at every stage. The far right is back with a vengeance. After several decades at the political margins, far-right politics has again taken center stage. Three of the world's largest democracies - Brazil, India, and the

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United States - now have a radical right leader, while far-right parties continue to increase their profile and support within Europe. In this timely book, leading global expert on political extremism Cas Mudde provides a concise overview of the fourth wave of postwar far-right

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politics, exploring its history, ideology, organization, causes, and consequences, as well as the responses available to civil society, party, and state actors to challenge its ideas and influence. What defines this current far-right renaissance, Mudde argues, is its mainstreaming

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and normalization within the contemporary political landscape. Challenging orthodox thinking on the relationship between conventional and far-right politics, Mudde offers a complex and insightful picture of one of the key political challenges of our time.

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This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. For one- or two-semester junior or senior level courses in Advanced Calculus, Analysis I, or Real Analysis. This text

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prepares students for future courses that use analytic ideas, such as real and complex analysis, partial and ordinary differential equations, numerical analysis, fluid mechanics, and differential geometry. This book is designed to challenge advanced students while encouraging and

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helping weaker students. Offering readability, practicality and flexibility, Wade presents fundamental theorems and ideas from a practical viewpoint, showing students the motivation behind the mathematics and enabling them to construct their own proofs.

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Second Edition

Measure Theory, Integration, and Hilbert Spaces

Basic Analysis II

Understanding Analysis

Principles of Mathematical Analysis

This textbook is designed for a one-year course in real analysis at the

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junior or senior level. An understanding of real analysis is necessary for the study of advanced topics in mathematics and the physical sciences, and is helpful to advanced students of engineering, economics, and the

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social sciences. Stoll, who teaches at the U. of South Carolina, presents examples and counterexamples to illustrate topics such as the structure of point sets, limits and continuity, differentiation, and orthogonal functions and

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Fourier series. The second edition includes a self-contained proof of Lebesgue's theorem and a new appendix on logic and proofs.

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Written for junior and senior

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undergraduates, this remarkably clear and accessible treatment covers set theory, the real number system, metric spaces, continuous functions, Riemann integration, multiple integrals, and more. 1968 edition.

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This is a graduate text introducing the fundamentals of measure theory and integration theory, which is the foundation of modern real analysis. The text focuses first on the concrete setting of Lebesgue measure and the Lebesgue integral

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(which in turn is motivated by the more classical concepts of Jordan measure and the Riemann integral), before moving on to abstract measure and integration theory, including the standard convergence theorems, Fubini's

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theorem, and the Carathéodory extension theorem. Classical differentiation theorems, such as the Lebesgue and Rademacher differentiation theorems, are also covered, as are connections with probability theory. The material is

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intended to cover a quarter or semester's worth of material for a first graduate course in real analysis. There is an emphasis in the text on tying together the abstract and the concrete sides of the subject, using the latter to

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illustrate and motivate the former. The central role of key principles (such as Littlewood's three principles) as providing guiding intuition to the subject is also emphasized. There are a large number of exercises throughout

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that develop key aspects of the theory, and are thus an integral component of the text. As a supplementary section, a discussion of general problem-solving strategies in analysis is also given. The last three sections

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discuss optional topics related to the main matter of the book.

Developed over years of classroom use, this textbook provides a clear and accessible approach to real analysis. This modern interpretation is based on the author's lecture

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notes and has been meticulously tailored to motivate students and inspire readers to explore the material, and to continue exploring even after they have finished the book. The definitions, theorems, and proofs contained within are

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presented with mathematical rigor, but conveyed in an accessible manner and with language and motivation meant for students who have not taken a previous course on this subject. The text covers all of the topics essential for an

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introductory course, including Lebesgue measure, measurable functions, Lebesgue integrals, differentiation, absolute continuity, Banach and Hilbert spaces, and more. Throughout each chapter, challenging exercises are

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presented, and the end of each section includes additional problems. Such an inclusive approach creates an abundance of opportunities for readers to develop their understanding, and aids instructors as they plan their

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coursework. Additional resources are available online, including expanded chapters, enrichment exercises, a detailed course outline, and much more. Introduction to Real Analysis is intended for first-year graduate students taking a first

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course in real analysis, as well as for instructors seeking detailed lecture material with structure and accessibility in mind. Additionally, its content is appropriate for Ph.D. students in any scientific or engineering discipline who have

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taken a standard upper-level undergraduate real analysis course.

Real Analysis

All the Tools You Need to Understand Proofs

Elementary Real Analysis

A Basic Course in Real Analysis

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Proofs from THE BOOK

This classic textbook has been used successfully by instructors and students for nearly three decades. This timely new edition offers minimal yet notable changes

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while retaining all the elements, presentation, and accessible exposition of previous editions. A list of updates is found in the Preface to this edition. This text is based on the author's

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experience in teaching graduate courses and the minimal requirements for successful graduate study. The text is understandable to the typical student enrolled in the course,

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taking into consideration the variations in abilities, background, and motivation. Chapters one through six have been written to be accessible to the average student, while at the same

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time challenging the more talented student through the exercises. Chapters seven through ten assume the students have achieved some level of expertise in the subject. In these chapters,

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the theorems, examples, and exercises require greater sophistication and mathematical maturity for full understanding. In addition to the standard topics the text includes

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topics that are not always included in comparable texts. Chapter 6 contains a section on the Riemann-Stieltjes integral and a proof of Lebesgue's theorem providing necessary and

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sufficient conditions for Riemann integrability. Chapter 7 also includes a section on square summable sequences and a brief introduction to normed linear spaces. Chapter 8

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contains a proof of the Weierstrass approximation theorem using the method of approximate identities. The inclusion of Fourier series in the text allows the student to gain some exposure to

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this important subject. The final chapter includes a detailed treatment of Lebesgue measure and the Lebesgue integral, using inner and outer measure. The exercises at the end of

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each section reinforce the concepts. Notes provide historical comments or discuss additional topics. This elementary presentation exposes readers to both the process of rigor

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and the rewards inherent in taking an axiomatic approach to the study of functions of a real variable. The aim is to challenge and improve mathematical intuition rather than to

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verify it. The philosophy of this book is to focus attention on questions which give analysis its inherent fascination. Each chapter begins with the discussion of some motivating examples

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and concludes with a series of questions.

Using an extremely clear and informal approach, this book introduces readers to a rigorous understanding of mathematical analysis and

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presents challenging math concepts as clearly as possible. The real number system. Differential calculus of functions of one variable. Riemann integral functions of one variable. Integral

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The Real Numbers and Real Analysis

An Introduction to

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Real Mathematical Analysis

Real Analysis is the third volume in
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approach to the integral has been added to Chapter 7.

There is more material than can be covered in a semester and instructors will need to make selections and perhaps use certain topics as honors or

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extra credit projects. To provide some help for students in analyzing proofs of theorems, there is an appendix on "Logic and Proofs" that discusses topics such as implications, negations, contrapositives, and

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different types of proofs. However, it is a more useful experience to learn how to construct proofs by first watching and then doing than by reading about techniques of proof. Results and proofs are

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given at a medium level of generality. For instance, continuous functions on closed, bounded intervals are studied in detail, but the proofs can be readily adapted to a more general situation. This

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approach is used to advantage in Chapter 11 where topological concepts are discussed. There are a large number of examples to illustrate the concepts, and extensive lists of exercises to challenge students

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and to aid them in understanding the significance of the theorems. Chapter 1 has a brief summary of the notions and notations for sets and functions that will be used. A discussion of Mathematical

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Induction is given, since inductive proofs arise frequently. There is also a section on finite, countable and infinite sets. This chapter can be used to provide some practice in proofs, or covered

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quickly, or used as background material and returning later as necessary. Chapter 2 presents the properties of the real number system. The first two sections deal with Algebraic and Order properties, and the

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crucial Completeness Property is given in Section 2.3 as the Supremum Property. Its ramifications are discussed throughout the remainder of the chapter. In Chapter 3, a thorough treatment of

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sequences is given, along with the associated limit concepts. The material is of the greatest importance. Students find it rather natural although it takes time for them to become accustomed to the use of

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epsilon. A brief introduction to Infinite Series is given in Section 3.7, with more advanced material presented in Chapter 9 Chapter 4 on limits of functions and Chapter 5 on continuous functions constitute

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the heart of the book. The discussion of limits and continuity relies heavily on the use of sequences, and the closely parallel approach of these chapters reinforces the understanding of these

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essential topics. The fundamental properties of continuous functions on intervals are discussed in Sections 5.3 and 5.4. The notion of a gauge is introduced in Section 5.5 and used to give

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alternate proofs of these theorems. Monotone functions are discussed in Section 5.6. The basic theory of the derivative is given in the first part of Chapter 6. This material is standard, except a result of

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Caratheodory is used to give simpler proofs of the Chain Rule and the Inversion Theorem. The remainder of the chapter consists of applications of the Mean Value Theorem and may be explored as time

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permits. In Chapter 7, the Riemann integral is defined in Section 7.1 as a limit of Riemannsums. This has the advantage that it is consistent with the students' first exposure to the integral in

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calculus, and since it is not dependent on order properties, it permits immediate generalization to complex- and vector-valued functions that students may encounter in later courses. It is

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also consistent with the generalized Riemann integral that is discussed in Chapter 10. Sections 7.2 and 7.3 develop properties of the integral and establish the Fundamental Theorem and many more

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masters level students. This volume started with notes for Math 522 at University of Wisconsin-Madison, and then was heavily revised and modified for teaching Math 4153/5053 at Oklahoma State

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University. It covers differential calculus in several variables, line integrals, multivariable Riemann integral including a basic case of Green's Theorem, and topics on power series, Arzelà-Ascoli, Stone-

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Weierstrass, and Fourier Series. See

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8. Several Variables and Partial Derivatives
9. One Dimensional Integrals in Several Variables

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10. Multivariable Integral 11.
Functions as Limits